

Nael Barakat

Professor and Chair

Biographical Sketch:

Dr. Barakat is a fellow of the American Society of Mechanical Engineers (ASME) and a registered professional engineer in Ontario, Canada. Dr. Barakat's expertise and interests include Mechatronics, Control, Robotics, Energy Harvesting, Nanotechnology, and Engineering Education. He is also a certified Program Evaluator (PEV) for ABET. He has over 80 peer reviewed publications and numerous training workshops around the globe aiming at improving engineering education. Dr. Barakat holds a Ph.D. in Mechanical Engineering from McMaster University, Ontario, and a Masters Degree from Concordia University, Canada. He is also the recipient of multiple awards including the ASME Edwin F. Church Medal (2020), ASME McDonald Mentoring Award (2014), ASME Dedicated Service Award (2011), and GVSU Distinguished Early-Career Award (2010). Dr. Barakat is active with related professional organizations and is currently serving on the executive boards of the ASME Engineering Management Division and Technology & Society Division. He also served as the past chair of the Engineering Ethics Division at the American Society of Engineering Education (ASEE) as well as in multiple leadership positions with ASME.

Research Interest:

Dr. Barakat's research interest includes the areas of: Mechatronics, Robotics, Dynamic Systems and Control, Energy Harvesting, as well as Engineering Leadership, Ethics, Professionalism, and Engineering Education. Currently he is working with a research group on energy harvesting devices implemented in different applications. Dr. Barakat is also working on parallel on Engineering education and leadership topics as well as sustainability and societal impact of technology.

Contact Information:

Email: nbarakat@uttyler.edu

Telephone: 903-566-7003

Office Number: RBN 3002